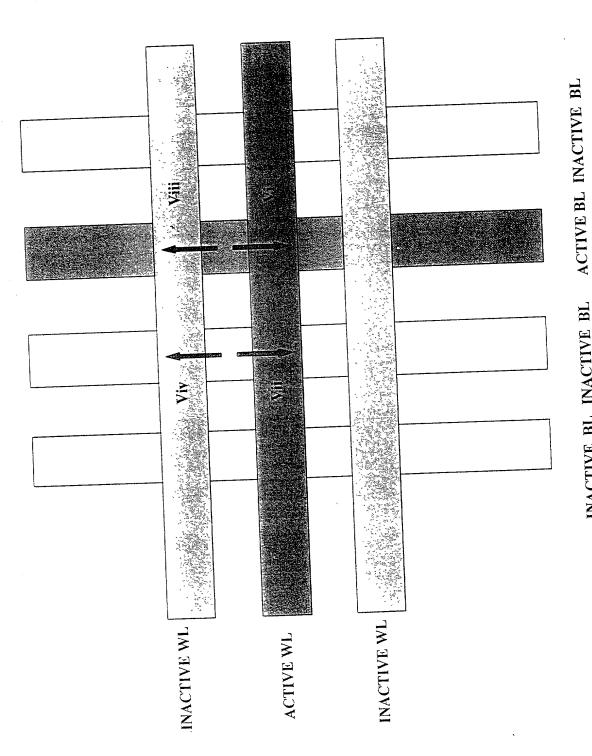


BL 2

BL 1



INACTIVE BL INACTIVE BL

FIG.3

3 Level Passive Matrix Switching Protocol

t₀: word line latched, active pulldown to 0

How is the control of the control of

Maximum depolarizing voltage Vs/2

t₁: bit line clamp released - sense amp on

 t_2 : bit line decision - data latched t_3 : word line returned to quiescent $V_s/2$

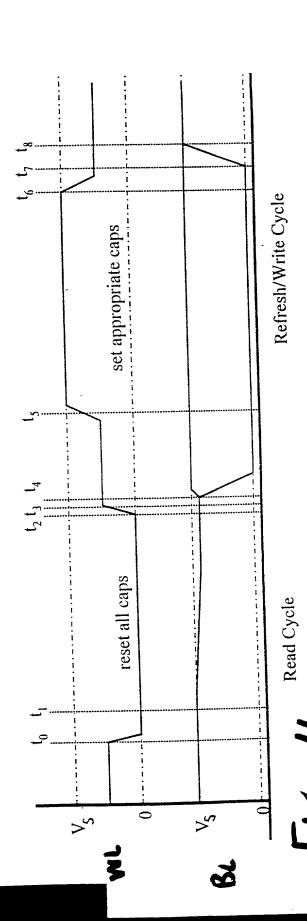
t₃: write data latched on bit lines

Word Lines

t₅: word line pulled to V_s - set/reset caps t₆: word line returned to quiescent V_s/2

t₇: bit lines actively returned to V_s clamp
t₈: read/write cycle complete

Sense Amps biased near V_s



3 Level Passive Matrix Switching Protocol

1₀: word line latched, active pull $\mu \rho$ to V_s

nak mininaksi in ing menganakan sali bikan panganak bebin bandaling pangan bangan pangan panganak sa

Maximum depolarizing voltage Vs/2

1; bit line clamp released - sense amp on

 t_2 : bit line decision - data latched

 $_{13}$: word line returned to quiescent $V_s/2$

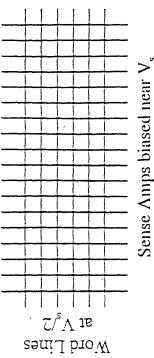
4: write data latched on bit lines

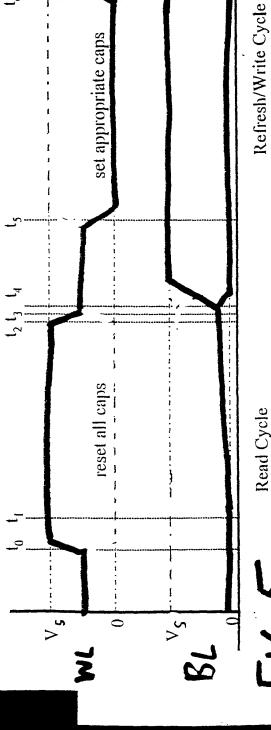
 I_5 : word line pulled to o - set/reset caps

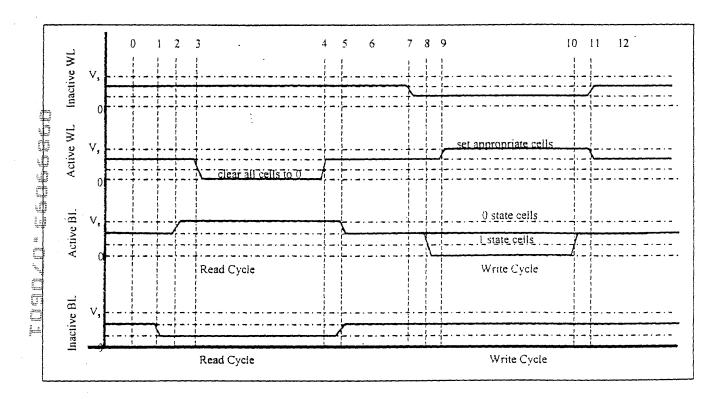
16: word line returned to quiescent V_s/2

17: bit lines actively returned to O clamp t₈: read/write cycle complete

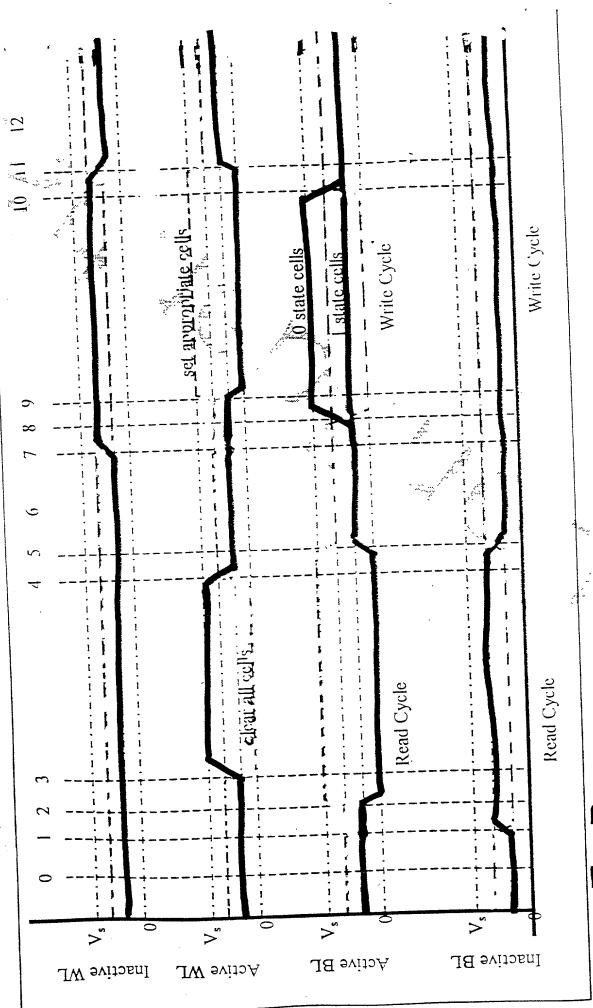
Sense Amps biased near V





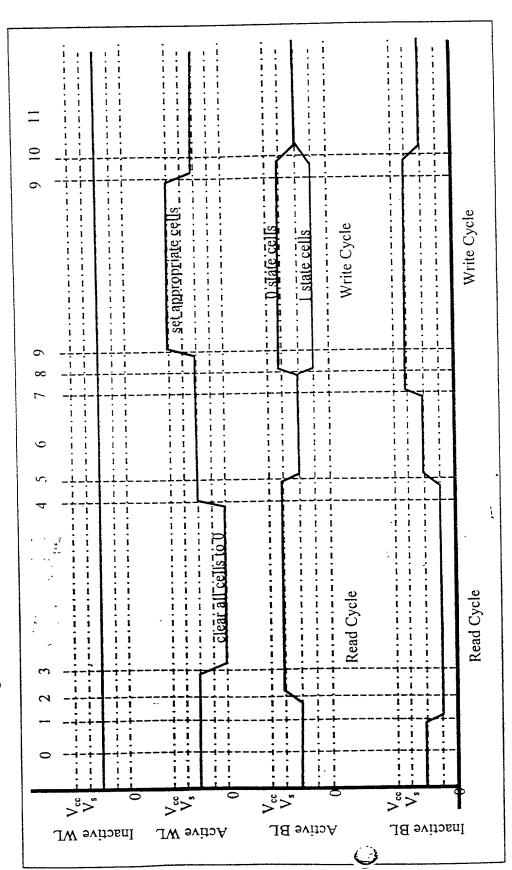


F16.6.



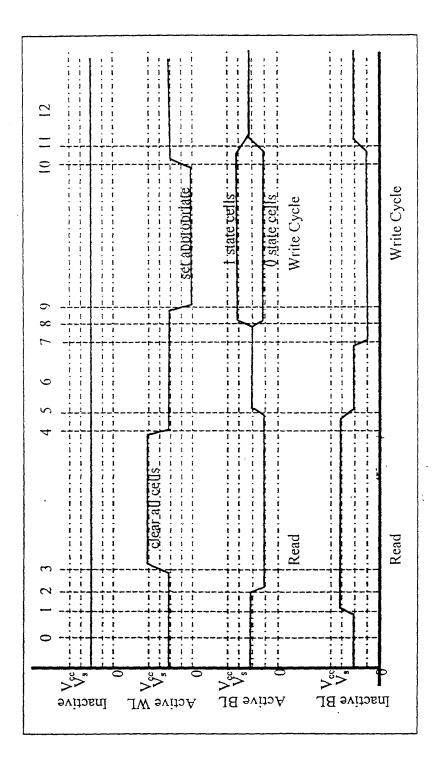
F16.7

Five Level Timing Diagram

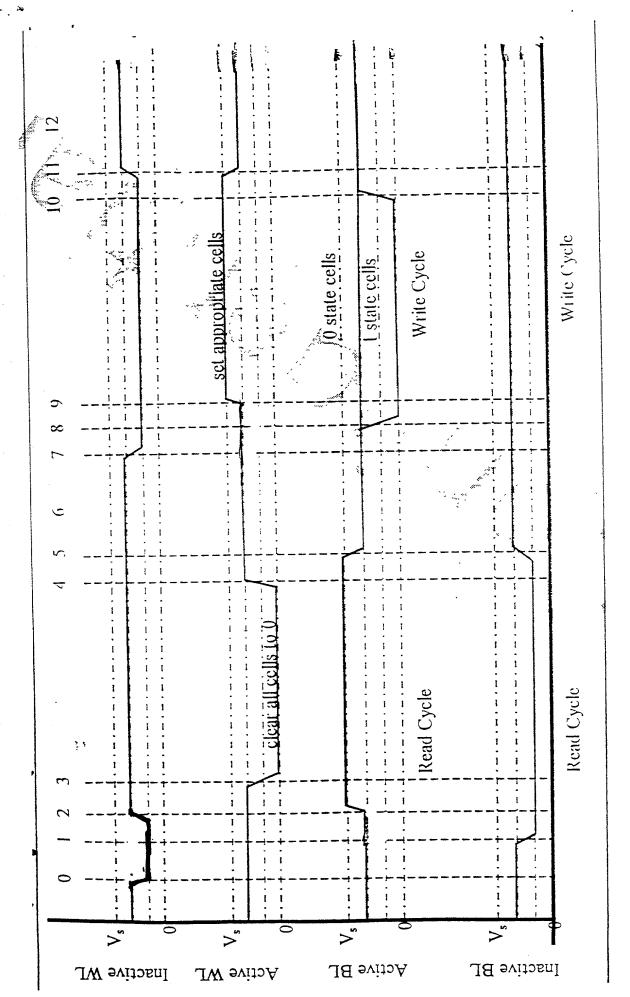


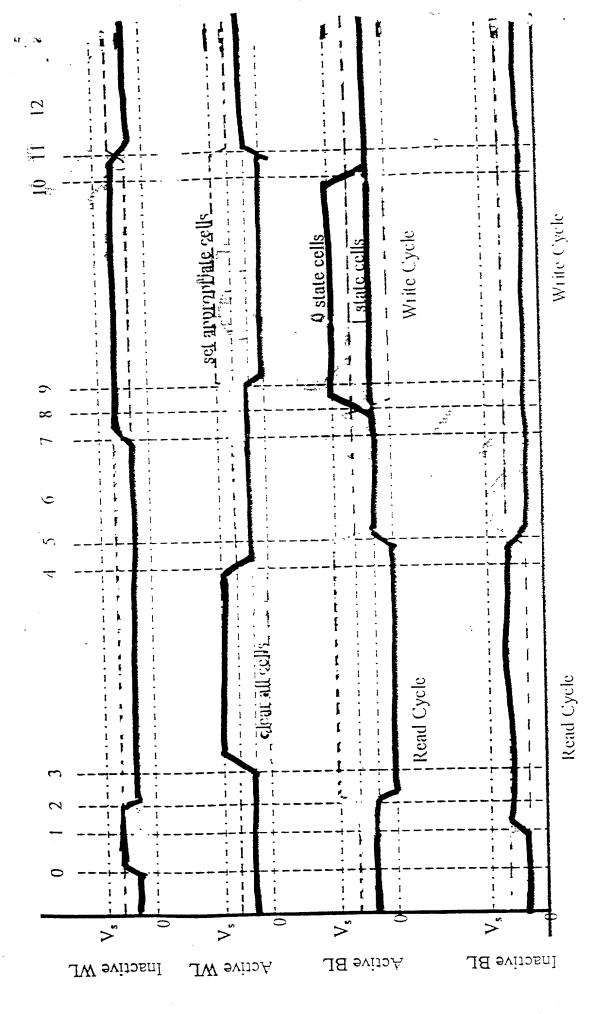
F16.8

Five Level Timing Diagram

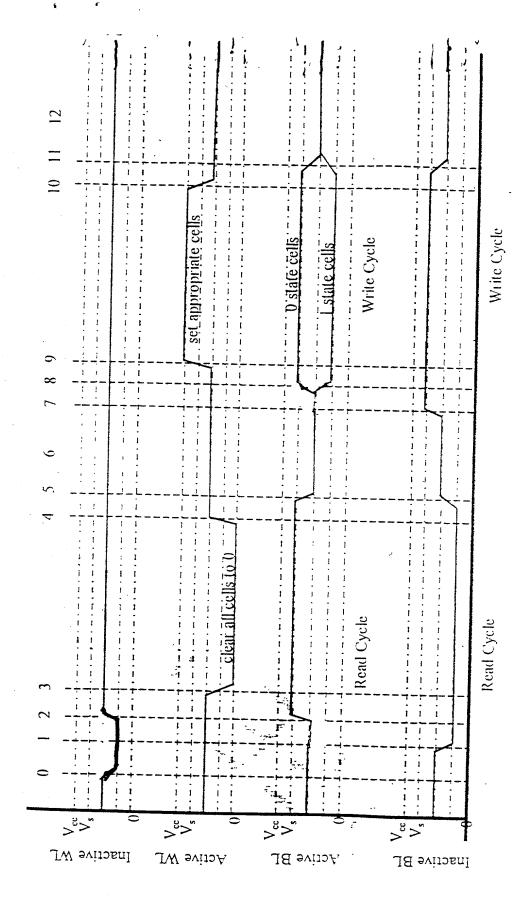


F16.9

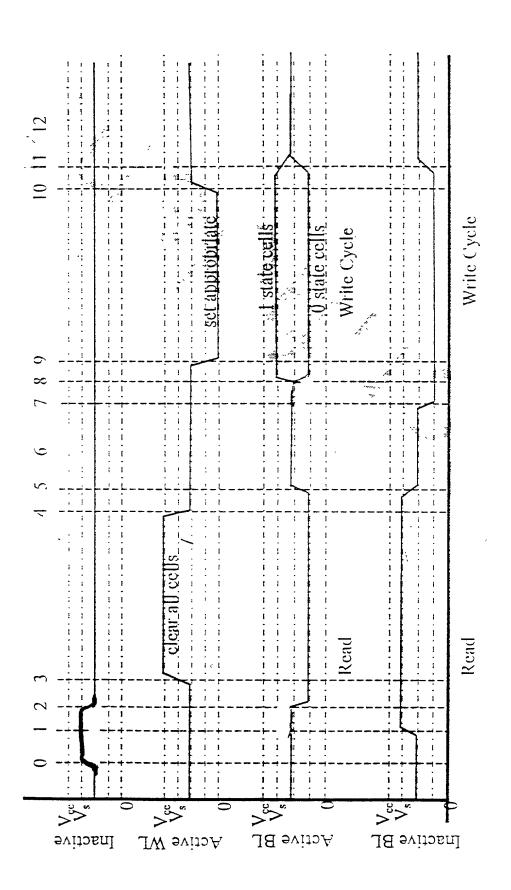




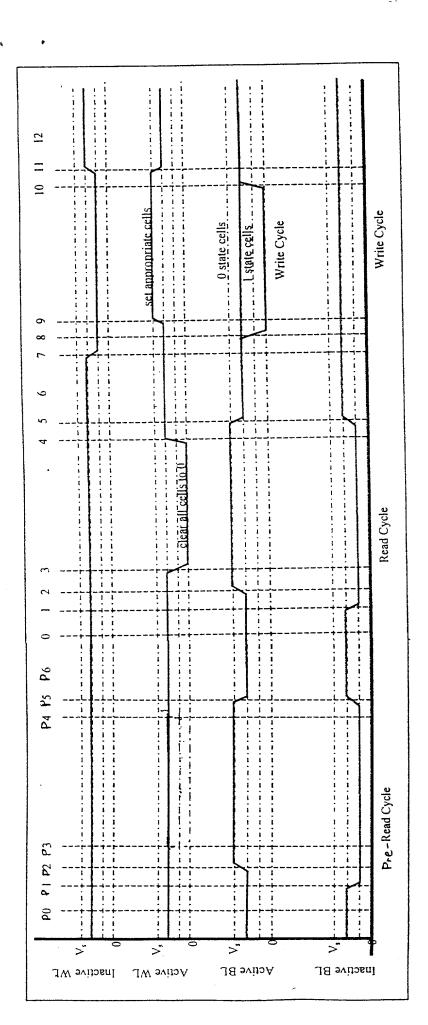
F16.1



F16.12



F16. 13



PRE-READ K PROTOCOL INVOLVING EXAMPLE OF READ AND WRITE CYCLE REFERENCE F16. 14

AMPLIFIERS SENSE

BL 2 BL 1